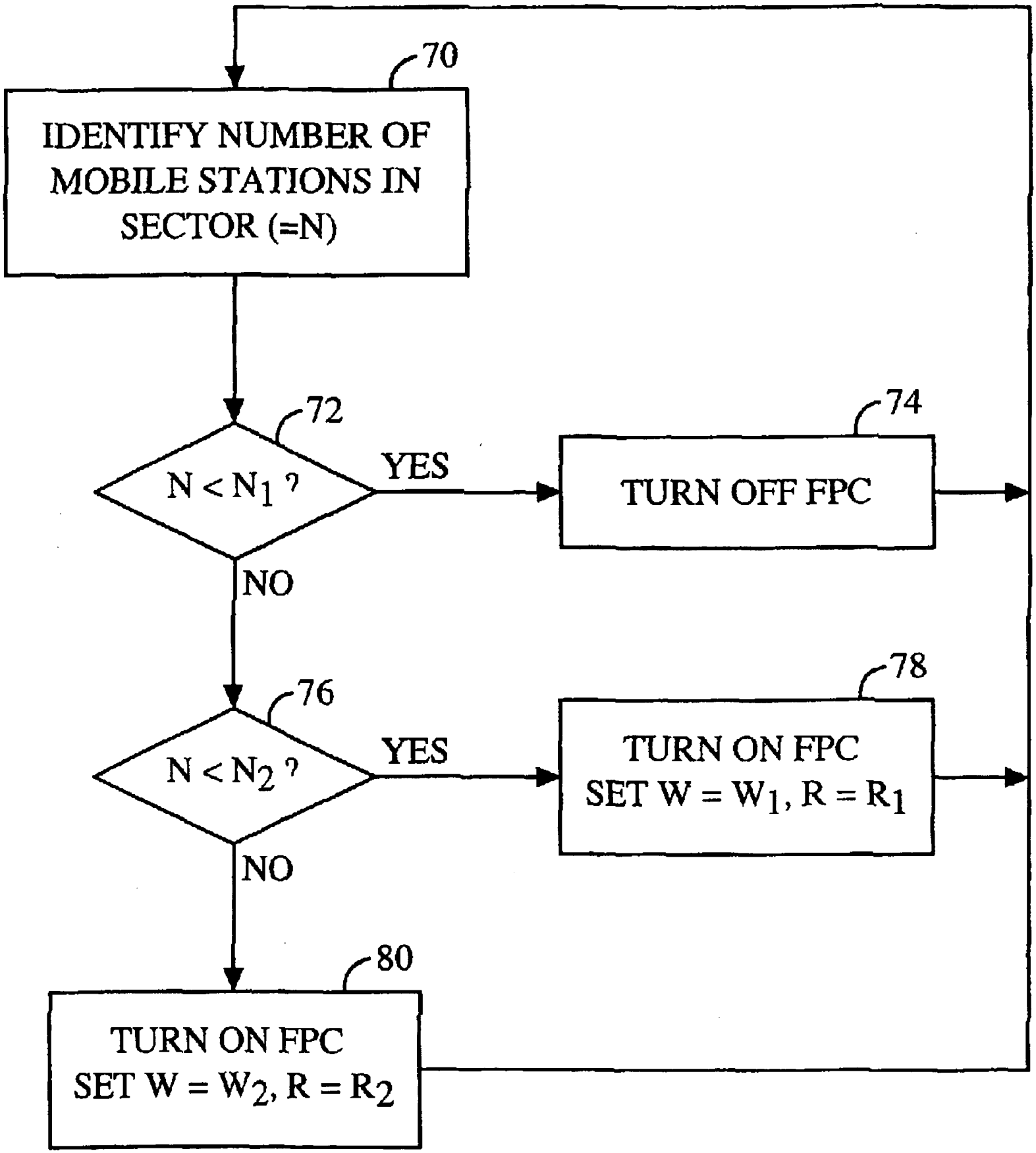
70
IDENTIFY NUMBER OF MOBILE STATIONS IN SECTOR (=N)
72
N < N1 ?
YES
74
TURN OFF FPC
NO
76
N < N2 ?
YES
78
TURN ON FPC
SET W = W1, R = R1
NO
80
TURN ON FPC
SET W = W2, R = R2

DERWENT-ACC-NO: **2004-315965**

DERWENT-WEEK: 200429

TITLE: Antenna gain pattern utilization method for use in **wireless** data communication system, involves adapting antenna gain pattern of base station, based on **number of mobile** stations in sector

INVENTOR: ATTAR, R A; ETKIN, R H ; GURELLI, M I

PATENT-ASSIGNEE: QUALCOMM INC[QUALN]

PRIORITY-DATA: 2002US-0251122 (September 20, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 2004028187 A1	April 1, 2004	E	046	H04Q 007/36

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
WO2004028187A1	N/A	2003WO-US30007	September 19, 2003

INT-CL (IPC): H04Q007/36

ABSTRACTED-PUB-NO: WO2004028187A

BASIC-ABSTRACT:

NOVELTY - The **number of mobile** stations are identified in a sector associated with a base station. An antenna gain pattern of the base station is adapted to control signal-to-interference-and-noise ratio (SINR) fluctuations, based on the **number of mobile** stations in the sector.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) base station; and

(2) antenna gain pattern utilization program.

USE - For utilizing antenna gain patterns used in **wireless** data communication system.

ADVANTAGE - **Controls the fluctuation rate and beam width** of the antenna gain pattern, thereby optimizing the overall data throughput in **wireless** data

communication system.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram illustrating the antenna gain pattern utilization method.

CHOSEN-DRAWING: Dwg.6/6

DERWENT-CLASS: W01 W02

EPI-CODES: W01-B05A1A; W02-B06B; W02-C03C1B; W02-C05A;